

NCUK

THE NCUK INTERNATIONAL FOUNDATION YEAR

IFYPH002 Physics

End of Semester 1 Test

2016-17

Mark Scheme

Notice to markers.

This mark scheme should be used in conjunction with the NCUK Marking Guidelines, available from the secure area (Web File Manager) of the NCUK website (<http://www.ncuk.ac.uk>). Contact your Principal/ Academic Manager if you do not have login details.

NB – Credit should be awarded for any pertinent answers not included in the mark scheme, not exceeding the total mark allowed for the question.

If a student has answered more than the required number of questions, credit should only be given for the first n answers, in the order that they are written in the student's answer booklet (n being the number of questions required for the examination). Markers should not select answers based on the combination that will give the student the highest mark. If a student has crossed out an answer, it should be disregarded.

Error Carried Forward:

Whenever a question asks the student to calculate-or otherwise produce-a piece of information that is to be used later in the question, the marker should consider the possibility of error carried forward (ECF). When a student has made an error in deriving a value or other information, provided that the student correctly applies the method in subsequent parts of the question, the student should be awarded the Method marks for the part question. The student should never be awarded the Accuracy marks.

When this happens, write ECF next to the ticks.

S1 Mark Scheme June2013

RD Boyd



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Cerambycidae of the World Qiao Wang, 2017-01-06 Wang has gathered contributions from an impressive cohort of the world's most respected experts on longhorned beetles. Chapters review both basics of cerambycid taxonomy, morphology and behavior, feeding, reproduction and chemical ecology as well as more applied concerns such as laboratory rearing, pest control and bio security. Overall, this volume is a valuable contribution to the literature as a one stop shop for readers seeking a comprehensive overview of longhorned beetles. It represents a tremendous effort on the part of Wang and the authors and has resulted in a much needed update to the literature. This volume is the only work of its kind available at this time and is a valuable addition to the library of any scientist studying wood boring beetles. Ann M Ray Biology Xavier University Cincinnati Ohio in The Quarterly Review of Biology Volume 94 2019. There are more than 36 000 described species in the family Cerambycidae in the world. With the significant increase of international trade in the recent decades, many cerambycid species have become major plant pests outside their natural distribution range, causing serious environmental problems at great cost. Cerambycid pests of field, vine and tree crops and of forest and urban trees cost billions of dollars in production losses, damage to landscapes and management expenditures worldwide. *Cerambycidae of the World: Biology and Pest Management* is the first comprehensive text dealing with all aspects of cerambycid beetles in a global context. It presents our current knowledge on the biology, classification, ecology, plant disease transmission and biological, cultural and chemical control tactics, including biosecurity measures from across the world. Written by a team of global experts, this book provides an entrance to the scientific literature on Cerambycidae for scientists in research institutions, primary industries and universities and will serve as an essential reference for agricultural and quarantine professionals in governmental departments throughout the world.

Recent Trends in Applied Artificial Intelligence Moonis Ali, Tibor Bosse, Koen V. Hindriks, Mark Hoogendoorn, Catholijn M. Jonker, Jan Treur, 2013-05-20. This volume constitutes the thoroughly refereed conference proceedings of the 26th International Conference on Industrial Engineering and Other Applications of Applied Intelligence Systems IEA AIE 2013 held in Amsterdam, The Netherlands in June 2013. The total of 71 papers selected for the proceedings were carefully reviewed and selected from 185 submissions. The papers focus on the following topics: auctions and negotiation, cognitive modeling, crowd behavior, modeling distributed systems and networks, evolutionary algorithms, knowledge representation and reasoning, pattern recognition, planning, problem solving, robotics, text mining, advances in recommender systems, business process intelligence, decision support for safety related systems, innovations in intelligent computation and applications, intelligent image and signal processing and machine learning methods applied to manufacturing processes and production systems.

Them and Us Philippe Legrain, 2020-10-15. Winner of the Diversity Inclusion and Equality Award at the Business Book Awards 2021. Underpinned by scholarship, Legrain's book fizzles with practical ideas. The Economist: The beauty of diversity is that innovation often comes about by serendipity. As Scott

Page observed one day in 1904 at the World Fair in St Louis the ice cream vendor ran out of cups Ernest Hami a Syrian waffle vendor in the booth next door rolled up some waffles to make cones and the rest is history Filled with data anecdotes and optimism Them and Us is an endorsement of cultural differences at a time of acute national introspection By every measure from productivity to new perspectives immigrants bring something beneficial to society If patriotism means wanting the best for your country we should be welcoming immigrants with open arms

Pattern Recognition and Image Analysis Joao Miguel Sanches,Luisa Micó,Jaime Cardoso,2013-05-23 This book constitutes the refereed proceedings of the 6th Iberian Conference on Pattern Recognition and Image Analysis IbPRIA 2013 held in Funchal Madeira Portugal in June 2013 The 105 papers 37 oral and 68 poster ones presented were carefully reviewed and selected from 181 submissions The papers are organized in topical sections on computer vision pattern recognition image and signal applications

Programming Languages Norman Ramsey,2022-10-27 Computer scientists often need to learn new programming languages quickly The best way to prepare for this is to understand the foundational principles that underlie even the most complicated industrial languages This text for an undergraduate programming languages course distills great languages and their design principles down to easy to learn bridge languages implemented by interpreters whose key parts are explained in the text The book goes deep into the roots of both functional and object oriented programming and it shows how types and modules including generics polymorphism contribute to effective programming The book is not just about programming languages it is also about programming Through concepts examples and more than 300 practice exercises that exploit the interpreter students learn not only what programming language features are but also how to do things with them Substantial implementation projects include Milner s type inference both copying and mark and sweep garbage collection and arithmetic on arbitrary precision integers

Civil Engineering and Urban Research, Volume 1 Hazem Samih Mohamed,Jinfang Hou,2023-03-28 Civil Engineering and Urban Research collects papers resulting from the conference on Civil Architecture and Urban Engineering ICCAUE 2022 Xining China 24 26 June 2022 The primary goal is to promote research and developmental activities in civil engineering architecture and urban research Moreover it aims to promote scientific information interchange between scholars from the top universities business associations research centers and high tech enterprises working all around the world The conference conducts in depth exchanges and discussions on relevant topics such as civil engineering and architecture aiming to provide an academic and technical communication platform for scholars and engineers engaged in scientific research and engineering practice in the field of urban engineering civil engineering and architecture design By sharing the research status of scientific research achievements and cutting edge technologies it helps scholars and engineers all over the world comprehend the academic development trend and broaden research ideas So as to strengthen international academic research academic topics exchange and discussion and promote the industrialization cooperation of academic achievements

Urban Agroecology Monika Egerer,Hamutahl Cohen,2020-12-16 Today 20 percent

of the global food supply relies on urban agriculture social ecological systems shaped by both human and non human interactions This book shows how urban agroecologists measure flora and fauna that underpin the ecological dynamics of these systems and how people manage and benefit from these systems It explains how the sociopolitical landscape in which these systems are embedded can in turn shape the social ecological political and economic dynamics within them Synthesizing interdisciplinary approaches in urban agroecology in the natural and social sciences the book explores methodologies and new directions in research that can be adopted by scholars and practitioners alike With contributions from researchers utilizing both social and natural science approaches Urban Agroecology describes the current social environmental understandings of the science the movement and the practices in urban agroecology By investigating the role of agroecology in cities the book calls for the creation of spaces for food to be sustainably grown in urban spaces an Urban Agriculture UA movement Essential reading for graduate students practitioners policy makers and researchers this book charts the course for accelerating this movement

Parliamentary Debates (Hansard). Great Britain. Parliament. House of Commons,2013

Issues in Aging Mark Novak,2018-02-02 Issues in Aging combines social psychological biological and philosophical perspectives to present a multifaceted picture of aging Novak illustrates both the problems and the opportunities that accompany older age This text helps students understand the tremendous variability in aging and introduces them to careers working with older adults This new edition reflects the continued changes in the way we age The fourth edition has been updated to include emerging issues in aging These include the prevalence of HIV AIDs in later life current research on mental potential in old age the creation of age friendly cities and new options for end of life care Each chapter begins with a set of learning objectives to guide students in their reading and concludes with a list of main points questions for discussion or study suggested readings and relevant web sites to consult Each chapter also includes up to date charts and graphs as well as key terms to help students understand the issues presented Break out boxes reveal the human side of aging through the stories of individuals in real life and in the media

Social Innovation and Sustainability Transition Geoff Desa,Xiangping Jia,2022-11-09 This book uses a historical and modern lens to reimagine the role that Extension could potentially play in catalyzing reciprocal co learning relationships between Land Grant Universities and their diverse local constituencies The establishment of statewide extension systems was once seen as a way to ensure that Land Grant Universities would be accessible and responsive to all of a state s residents Extension systems continue to offer a front door to a major public university in almost every county of the United States but they tend to be viewed primarily as a way to translate science or distribute information from the university to the public This books argues for the importance of Extension and shows that we are conceiving of this system too narrowly Only by retelling the stories of the Extension and getting people to see themselves as part of the story can we imagine a different future in which state universities and land grant colleges engage more authentically and equitably in two way relationships with their local constituents in catalyzing

reciprocal co learning relationships between Land Grant Universities and their diverse local constituencies Chapter Palatable disruption the politics of plant milk chapter Feeding the melting pot inclusive strategies for the multi ethnic city chapter A carrot isn t a carrot isn t a carrot tracing value in alternative practices of food exchange chapter Virtualizing the good life reworking narratives of agrarianism and the rural idyll in a computer game and chapter Workable utopias for social change through inclusion and empowerment Community supported agriculture CSA in Wales as social innovation are available open access under a Creative Commons Attribution 4 0 International license via link springer.com **Proceedings of the 2006 International Conference on Supercomputing** ,2006 *Backpacker* ,2001-03 Backpacker brings the outdoors straight to the reader s doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world s first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker s Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured *Moody's Manual of Investments* John Sherman Porter,1947 American government securities 1928 53 in 5 annual vols v 1 Railroad securities 1952 53 Transportation v 2 Industrial securities v 3 Public utility securities v 4 Government securities 1928 54 v 5 Banks insurance companies investment trusts real estate finance and credit companies 1928 54 **Library Literature** ,1965 **Bibliography of Agriculture** ,1980 **Bibliography of Agriculture with Subject Index** ,1980

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